

1 ACCESS CONTROL RISER DIAGRAM

NO SCALE

NOTES:

- THIS RISER IS DIAGRAMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. SEE PLANS FOR MORE SPECIFIC ROUTING INFORMATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES:

- ACCESS CONTROL POWER SUPPLY MAY BE LOCATED IN SAME ENCLOSURE AS ACCESS CONTROL PANEL.
- ONE PAIR SHALL BE FOR REMOTE SHUNTING FROM SCC, ONE PAIR FOR MONITORING ALARM.
- KEYSWITCH SHALL BE DPDT FOR LOCAL SHUNTING AND SCC NOTIFICATION OF SHUNTING.
- CONTRACTOR SHALL COORDINATE WITH DOOR HARDWARE PROVIDER FOR SEQUENCE OF OPERATION OF ADA PADDLE(S), TIMED RELEASE AND ACCESS CONTROL. EXIT ADA PADDLE SHALL ALWAYS BE ACTIVE. ENTRANCE ADA PADDLE SHALL BE ACTIVE ONLY AFTER PRESENTATION OF A VALID BADGE OR DURING DEFINED TIME PERIOD(S). TWO CONDUCTORS OF LOCK CABLE SHALL INTERFACE WITH OPERATOR. ISOLATION RELAY MAY BE LOCATED AT ACCESS PANEL OR AT OPERATOR.
- NORMALLY CLOSED DRY CONTACT OUTPUT FROM FIRE ALARM SYSTEM.



- CAT 6 FOR FUTURE FPS 201-2 CONFORMANCE. LEAVE COILED CABLE AT READER ABOVE CEILING, AND IN A NEMA 12 ENCLOSURE AT THE CONTROL PANEL END.
- CAT 6 CABLE CONNECTION VIA RS-232 OR RS485 IS ACCEPTABLE.

2 TECHNOLOGY ROOM CONNECTIVITY DIAGRAM (HC-#)

NO SCALE

NOTES:

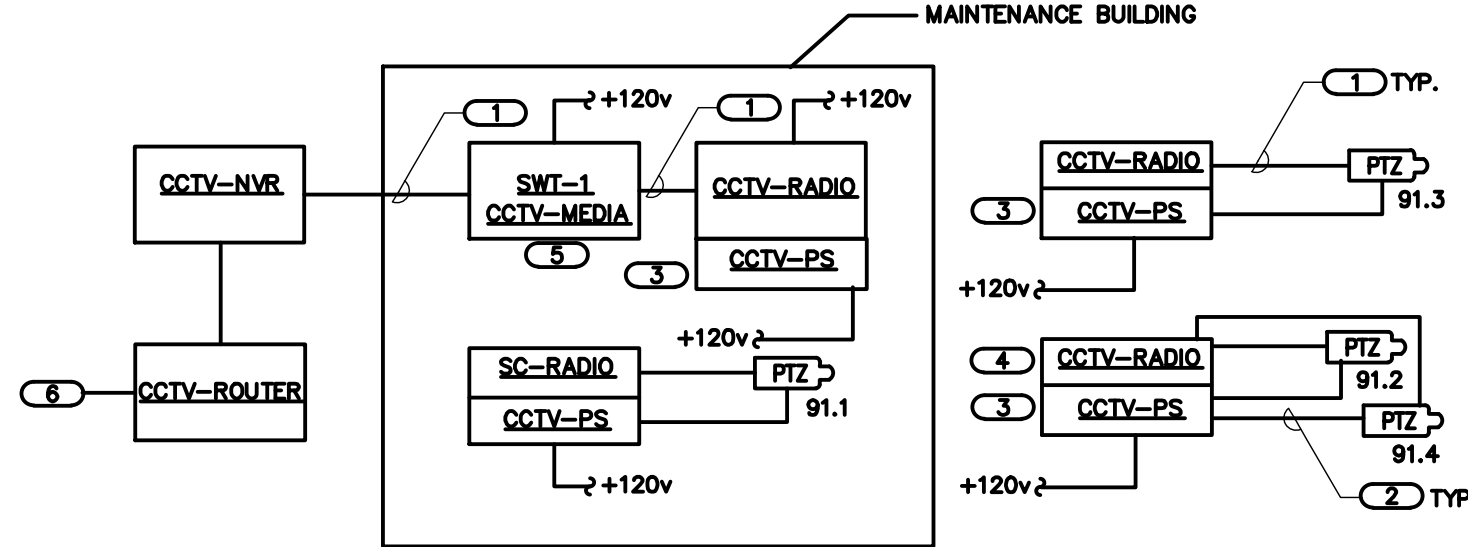
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LEGEND:

- FIBER ————
COPPER ————
MM — MULTIMODE FIBER
SM — SINGLEMODE FIBER

KEYNOTES:

- 23 GAUGE, 4-PAIR, CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, SEE SPECIFICATIONS
- SEE PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET
- CONTRACTOR PROVIDED CAT6 PATCH CORDS.
- SEE 00/TY301 FOR SWITCH REQUIREMENTS.



4 CONNECTIVITY DIAGRAM, BUILDING 91, CEMETERY

NO SCALE

NOTES:

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LEGEND:

- FIBER ————
COPPER ————
MM — MULTIMODE FIBER
SM — SINGLEMODE FIBER

KEYNOTES:

- 23 GAUGE, 4-PAIR, CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, RATED FOR THE ENVIRONMENT. SEE SPECIFICATIONS
- 16 AWG 2 CONDUCTOR, POWER
- POWER SUPPLY MAY OR MAY NOT BE ADJACENT TO RADIO.
- IF RADIO DOES NOT HAVE AN INTEGRATED, MULTIPORT SWITCH, CONTRACTOR SHALL FURNISH A HARDENED, 10 / 100 SWITCH WITH A MINIMUM OF 4 PORTS.
- TWO (2) MEDIA CONVERTERS ARE REQUIRED TO PROVIDE NETWORK ISOLATION FROM SURGES AT THE CAMERA. CONTRACTOR SHALL FURNISH FIBER OPTIC JUMPER TO CONNECT THE TWO CONVERTERS.
- POSSIBLE FUTURE T1/DSL LINE BY OWNER. OWNER SHALL FURNISH ROUTER.

3 TECHNOLOGY ROOM CONNECTIVITY DIAGRAM (MC-1)

NO SCALE

NOTES:

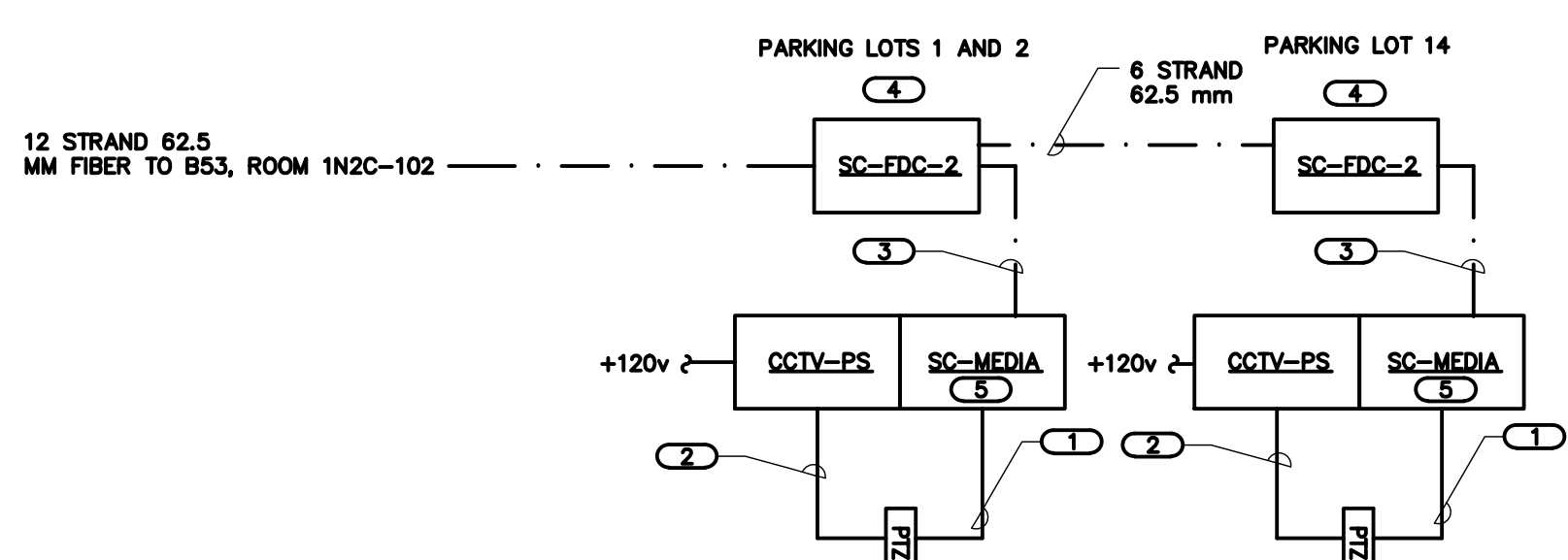
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LEGEND:

- FIBER ————
COPPER ————
MM — MULTIMODE FIBER
SM — SINGLEMODE FIBER

KEYNOTES:

- 23 GAUGE, 4-PAIR, CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, SEE SPECIFICATIONS
- SEE PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET
- CONTRACTOR PROVIDED PATCH CORDS.



5 CONNECTIVITY DIAGRAM, PARKING LOTS 1,2,14

NO SCALE

NOTES:

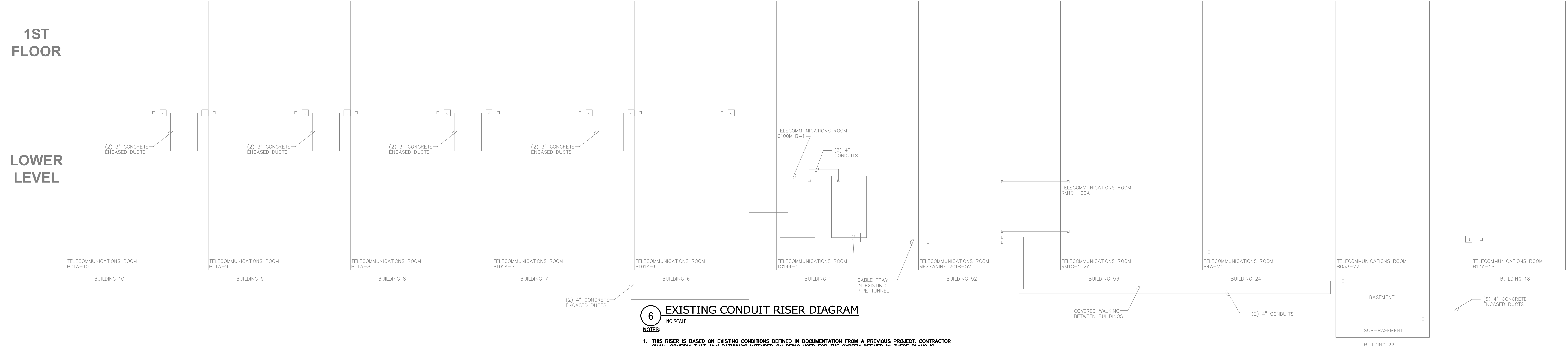
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LEGEND:

- FIBER ————
COPPER ————
MM — MULTIMODE FIBER
SM — SINGLEMODE FIBER

KEYNOTES:

- 23 GAUGE, 4-PAIR, CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, SEE SPECIFICATIONS
- 16 AWG 2 CONDUCTOR POWER
- CONTRACTOR PROVIDED FIBER OPTIC PATCH CORDS.
- FIBER CONNECTOR PANEL, POWER SUPPLY AND MEDIA CONVERTER SHALL BE LOCATED IN A NEMA 4X SS PADLOCKABLE ENCLOSURE WITH COMPONENTS RATED FOR THE TEMPERATURES TO WHICH THEY WILL BE EXPOSED.
- OTHER HALF OF MEDIA CONVERTER PAIR FOR EACH CAMERA TO BE LOCATED AT POINT OF CONNECTION TO NETWORK SWITCH.



6 EXISTING CONDUIT RISER DIAGRAM

NO SCALE

NOTES:

- THIS RISER IS BASED ON EXISTING CONDITIONS DEFINED IN DOCUMENTATION FROM A PREVIOUS PROJECT. CONTRACTOR SHALL CONFIRM THAT ANY PATHWAYS INTENDED ON BEING USED FOR THE SYSTEM DEFINED IN THESE PLANS IS PRESENT AND AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR NEW, REQUIRED PATHWAYS.

No.	Description	Date	CONSULTANTS:	ARCHITECTS/ENGINEERS:	APPROVED:	APPROVED:	APPROVED:	APPROVED:	Drawing Title:	Project Title:	Date:	Project No.	Drawing No.
1	ADDENDUM #4	12/05/14	KJW ENGINEERING CONSULTANTS Experience you can build on 870 DUNN DRIVE, SUITE 104 ST. LOUIS, MISSOURI 63104 PH: 314.451.1173 WWW.KJW.COM STRUCTURAL MECHANICAL ELECTRICAL TECHNOLOGY MEDICAL EQUIPMENT SOLUTIONS Equal Opportunity Employer	303rd Engineering Group, LLC Service-Disabled Veteran-Owned Small Business 1925 ARDENVALE STREET ST. LOUIS, MO 63118 PH: (314) 569-3282 HTTP://WWW.303ENGINEERING.COM	APPROVED:	APPROVED: President AF.GE. 2250	APPROVED: Energy Engineer	APPROVED: Medical Center Director	TECHNOLOGY RISER DIAGRAMS	REPLACE SURVEILLANCE SYSTEM	08.23.13	623.12.105	00 TY401
					APPROVED:	APPROVED:	APPROVED: Safety Manager	APPROVED: Associate Director	AS SHOWN	Approved: TWC - JCMVAMC Checked By: DAVLAR Drawn By: KEIEVE			00 TY401
					APPROVED:	APPROVED:	APPROVED: Infection Control Nurse	APPROVED: Chief of Staff	SITE	Location: Jack C. Montgomery VA Medical Center - Muskogee, OK			Dwg. 30 of 122
					APPROVED:	APPROVED:	APPROVED: Industrial Hygienist	APPROVED: Chief of Engineering Service					